

WHAT IS CLAIMED IS:

1. An information recording apparatus for recording information on a predetermined recording medium, said information recording apparatus comprising:

creation means for creating search data from main image data; and

recording means for recording said search data created by said creation means and said main image data on said recording medium,

wherein said creation means creates first data by which an image can be displayed over one entire one screen, and second data for enhancing the image quality of said image displayed by said first data, each being used as said search data, and said recording means records said first data and said second data in a predetermined sequence.

2. An information recording apparatus according to Claim 1, wherein said recording means records said second data after said first data is recorded.

3. An information recording apparatus according to Claim 1, wherein said creation means creates each of said first data and said second data in such a manner so as to be divided into a plurality of portions in predetermined units.

4. An information recording apparatus according to Claim 3, wherein said predetermined units are units of blocks in which error checking is performed.

5. An information recording apparatus according to Claim 3, wherein said creation means creates said second data corresponding to the central portion of one screen of said image, and at least one piece of said second data corresponding to a portion which is outside the central portion, and

said recording means records a plurality of pieces of said second data in a sequence from the data corresponding to the central portion of one screen of said image to the data corresponding to a portion outside the central portion.

6. An information recording apparatus according to Claim 3, wherein said recording means records said first data in said predetermined units in such a manner as to be obtained by one trace during reading.

7. An information recording apparatus according to Claim 1, wherein said search data is composed of image data and control data, said control data has a packet structure in which a search header and subcode data which is the same

as said main image data are written in such a manner so as to be divided, and the packet header of said packet structure indicates which data is written in said control data.

8. An information recording method for use with an information recording apparatus for recording information on a predetermined recording medium, said information recording method comprising:

a creation step for creating search data from main image data; and

a recording step for recording said search data created in said creation step and said main image data on said recording medium,

wherein, in said creation step, first data by which an image can be displayed over one entire screen and second data for enhancing the image quality of said image displayed by said first data, each being used as said search data, are created, and in said recording step, said first data and said second data are recorded in a predetermined sequence.

9. A recording medium having recorded thereon a computer-readable program for use with an information recording apparatus for reading information on a predetermined recording medium, said program comprising:

a creation step for creating search data from main image data; and

a recording step for recording said search data created in said creation step and said main image data on said recording medium,

wherein, in said creation step, first data by which an image can be displayed over one entire screen, and second data for enhancing the image quality of said image displayed by said first data, each being used as said search data, are created, and in said recording step, said first data and said second data are recorded in a predetermined sequence.

10. An information reading apparatus for reading information recorded on a predetermined recording medium, said information reading apparatus comprising:

acquiring means for acquiring search data, which is composed of image data and control data, recorded on said recording medium; and

display control means for controlling the display position of said image data on the basis of coordinate information contained in said control data.

11. An information reading apparatus according to Claim 10, further comprising interpolation means for interpolating a display image by using said search data

obtained by said acquiring means when said search data obtained by said acquiring means is less than the required amount of data for one screen of the display image.

12. An information reading method for use with an information reading apparatus for reading information recorded on a predetermined recording medium, said information reading method comprising:

an acquiring step for acquiring search data, which is composed of image data and control data, recorded on said recording medium; and

a display control step for controlling a display position of said image data on the basis of coordinate information contained in said control data.

13. A recording medium having recorded thereon a computer-readable program for use in an information reading apparatus for reading information recorded on a predetermined recording medium, said program comprising:

an acquiring step for acquiring search data, which is composed of image data and control data, recorded on said recording medium; and

a display control step for controlling a display position of said image data on the basis of coordinate information contained in said control data.

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said search data is composed of first data by which an image can be displayed over one entire screen, and second data for enhancing the image quality of said image displayed by said first data.

15. A magnetic tape format according to Claim 14, wherein, after said first data, said second data which corresponds thereto is recorded.

16. A magnetic tape format according to Claim 14, wherein said first data and said second data are each recorded in such a manner so as to be divided into a plurality of portions in predetermined units.

17. A magnetic tape format according to Claim 16, wherein said predetermined units are units of blocks in which error checking is performed.

18. A magnetic tape format according to Claim 16,
wherein said second data corresponding to the central
portion of one screen of said image and at least one piece

of said second data corresponding to a portion outside the central portion are recorded in a sequence from the data corresponding to the central portion to the data corresponding to the outside portion.

19. A magnetic tape format according to Claim 16, wherein said first data in said predetermined units is recorded in such a manner as to be obtained by one trace during reading.

20. A magnetic tape format according to Claim 14, wherein said search data is composed of image data and control data, and

said control data has a packet structure in which search headers and subcode data which is the same as said main image data are written in such a manner so as to be divided, and said packet header of the packet structure indicates which data is written in said control data.